

FIG. 1

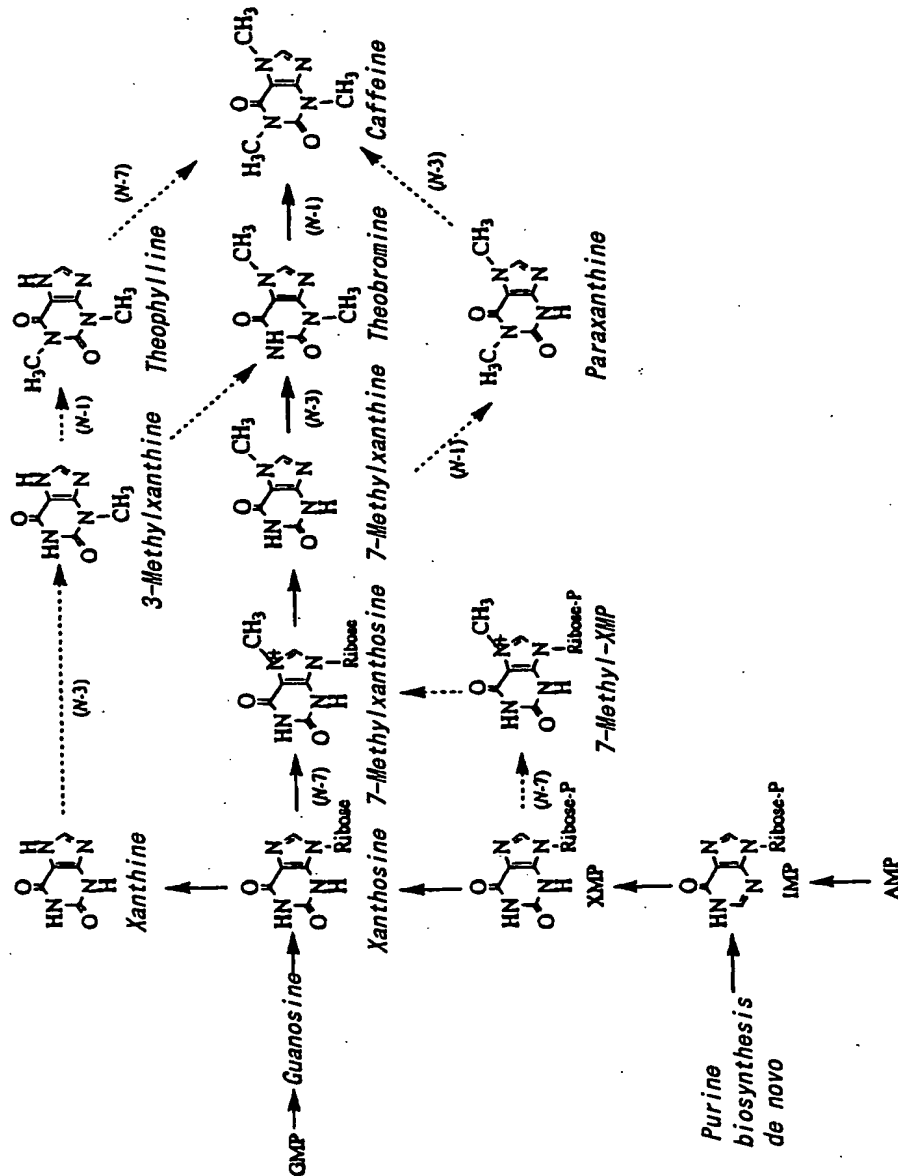


FIG. 2

A

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GTCCTGCATA TGAATGGAGC TCCAGAAAGT CCTGCATATG AATGGAGGCG AAGGCGAAGC AAGCTACGCC AAGAATTCAT CTTCAATCA 90
ACTGGTCTCT GCCAAGGTGA AACCTGTCTT TGAACATATG GTACGGGAAT TGTTCGGGCG CAACCTGCCC AACATCAACA AGTGCAATTAA 180
AGTTGCAGAT TTGGGATGCG CTTCGGGACC AAACACACTT TTAACCGTTT GGGACACTGT ACAAAGTATT GACAAGTTA AGCAAGAAAT 270
GAAGAATGAA TTAGAAGCTC CCACCATTTCA GGTTTTTCTG ACTGATCTTT TCCAAAATGA TTTCGAATTCG GTTTTTCATCG TGCTGCCAAG 360
CTTCTACCGC AAACCTTGAG AAGAAAATGG ACGCAAAATA GGATCGTGCC TAATAGCCGC AATGCTGCGC TCTTTCCACG CGACACTCTT 450
CCCCGAGGAG TCCATGCATT TTTTACACTC TTCTTACAGT CTTCAAGTTT TATECCAGGT TCCCAAGCGT TTGGTGACTG AATTGGGGAT 540
CACTCGGAAAC AAAAGGAGCA TTTACTCTTC CAAGCAAGT CTTCTACGCT CCTCCGCGCG TCCAGAAAGC ATATTTGGAT CAATTTACGA AAGATTTTAC 630
CACATTTTAA AGGATGCGTT CGGAAGAGTT GCTTTCAGCT GGCCGAATGC TCCTTACTTG CATTTGTAAA GGAGATGAAT GCGACGGGCC 720
CAATACCATG GACTTACTTG AGATGGCAAT AAACGACTTG GTTCTGAGG GACGTCTGGG GGAAGAAAAA TTGACAGATT TCAATGTTCC 810
AATCTATACA GCTTCAGTAG AAGAAGTAAA GTGCATGGTT GAGGAGGAAG GTTCTTTTGA AATTTTATAC TTGCAGACTT TTAAGCTCCG 900
TTATGATGCT GGCTTCTCTA TTGATGATGA TTGCAAGTA AGATCCCAT TCCCCAGTATA CAGCGATGAA CATGCTAGAG CAGCGCATGT 990
GGCATCATTAA ATTAGATCAG TTTACGAACC CATCTAGCA AGTCAATTTG GAGAAGCTAT TATACCTGAC ATATTTCCACA GGTTTGCGAC 1080
GAATGCAGCA AAGGTTATCC GCTTGGGCAA AGGCTTCTAT AATAATCTTA TCAATTTCTCT TGCCAAAAAA CCAGAGAAAT CAGACATATA 1170
AAGGCTTTGT TTAGTTGGT TTTTGTGTTA TGGGTTGTGT TCTGATACGG GGAAGGATT CAGTGGCGTT GGGGTTCTAT CCGAGTATTG 1260
TACTTTTAT ATTATTAGT GGTGTATAAT TATTATGTTA CATTTGTATA TTGTAATAA AAGTGACGTA CAAAAATAA ATATTTTCAT 1350
AAAAAAAAA 1360
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B

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TTTAGCAGTC CCAATTCGAT TTATGTACAA GTCTGCATA TGAATGGAGC TCCAGAAAGT CCTGCATATG AATGGAGGCG AAGGCGATGC 90
AAGCTACGCC AAGAATTCAT CTTCAATGA ACTGGTCTCT GCCAAGGTGA AACCTGTCTT TGAACATATG GTAGGGGAAT TGTTCGGGCG 180
CAACTTGCCE AACATCAACA AGTGCAATTAA AGTTGCGGAT TTGGGATGCG CTTCGGGACC AAACACACTT TTAACAGATT GGGACATTGT 270
ACAAAGTATT GACAAGTTA GGAAGAAAT GAAGAATGAA TTAGAAGCTC CCACCATTTCA GGTTTTTCTG ACTGATCTTT TCCAAAATGA 360
TTTCAATTCG GTTTTCTGCT TGCTGCCAAG TTTCTACCGC AAACCTTGAG AAGAAAATGG ACGCAAGATA GGATCGTGCC TAATAGCCGC 450
AATGCTGCGC TCTTTCCACG CGACACTCTT TTTTACACTC TTCTTACAGT CTTCAATTTT TATCCCAAGT 540
TCCCAAGCGT TTGGTGACTG AATTGGGGAT CACTGCGAAC AAAAGGAGCA TTTACTCTTC CAAGCAAGT CCTCCGCGCG TCCAGAAAGC 630
ATATTTGGAT CAATTTACGA AAGATTTTAC CACATTTTAA AGGATGCGTT CGGAAGAGTT GCTTTCAGCG GGCCGAATGC TCCTTACTTG 720
CATTTGCAAA GGAGATGAAT TCGACGGGCC GAATACCATG GACTTACTTG AGATGGCAAT AAACGACTTG GTTGTGAGG GACATCTGGA 810
GGAAGAAAAA TTGACAGATT TCAATGTTCC AATCTATGCA GCTTCAGTAG AAGAATTAAT GTGCATAGTT GAGGAGGAAG GTTCTTTTGA 900
AATTTGTGAC TTGGAGACTT TTAAGCTCCG TTATGATGCT GGCTTCTCTA TTGATGATGA TTGCAAGTA AGATCCCAT CCGCAAGATA 990
CAGCGATGAA CATGCTAGAG CAGCGCATGT GGCATCATT AATTAGATCAG TTTACGAACC CATCTGCGCA AATCAATTTG GAGAAGCTAT 1080
TATACCTGAC ATATTTCCACA GGTTTGCGAC GAATGCAGCA AAGGTTATCC GCTTGGGCAA AGGCTTCTAT AATAATCTTA TCAATTTCTCT 1170
TGCCAAAAAA CCAGAGAAAT CAGACATATA AAGCTTGTGT TTAGTTGGT TTTTGTGCTA TGGTGTGTTT TCTGATACGG GGAAGGATT 1260
TAGTGGCGTT GGGGTTCAAA AAAAAAATA AAAAAAATA AAAA 1360
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C

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CTTTGGCAGT CCAATTTTGA TTATGTACAA AGTCTGCAT ATGAATGGAG CTCGAAGAAG TCTTCGGGAT GAATGGAGCG GAAGGCGATA 90
CAAGCTACGC CAAGAATTCA GCTTACAAAT AACTGGTCTCT GCGCAAGGTG AAACCTGTCT TGAACATATG GTAGGGGAAT TGTTCGGGCG 180
CCAACCTGCC CAACATCAAC AAGTGCAATTAA AGTTGCGGAT TTGGGATGCG GCTTCTGAGC CAACACACTT TTAACAGATT GGGACATTGT 270
AGTTGGCCAG GAAGAGAAGA ATGAATTTGA AGCTCCACCC ATTCAGATTT TTCTGAATGA TCTTTTCCAA AATGATTTGA ATTCGGTTTT 360
ATTTCAATTC GGTTTTCAAG TTGCTGCCAA GCTTCTACCG CAACCTTGAG AAGAAAATGG GAGCGAAAAT AGGATGCTGC CTAATAGGGG 450
CAATGCCCGG CTCTTCTAC AGCAGACTCT TCCCGGAGCA GTCCATGCA TTTTACACT CTGTTACTG TCTTCAATGG TTATCTCAGG 540
TTCTAGCGCG TTGGTGACT GAATGGGGA TCAATGACGA CAAGGGAGC ATTTACTCTT CCAAGCAAG TGTCTGCCG GTCCAGAAAG 630
CAATTTTGA TCAATTTACG AAGAATTTTA CCACATTTCT AAGGATTCAT TCGGAAGAGT TGTTTTCA TGGCCGAGT CTTCTACTT 720
GCATTTGTAA AGGATTTGAA TTAGACGCC GGAATGCCAT AGACTTACTT GAGATGGCAA TAAACGACTT GGTTTGAGG GGACATCTGG 810
AGGAAGAAAA ATTGATATG TTCAATCTTC CAGTCTATAT ACCTTCAGCA GAGAAGTAA AGTGCATAGT TGAGGAGGAA GGTCTTTTGG 900
AAATTTTATA CTTGGAGACT TTTAAGGTCC TTTACGATGC TGCTTCTCT ATTTAGCATG AACATATTAA AGCAGATGAT GTTGCATCTT 990
CCGTAGAGCG AGTTTACGAA CCACTCTCCG CAAGTCATTT TGGAGAAGCT ATTTATACCTG ACATATTCCA CAGGTTTGGC AAGCATGACG 1080
CAAGGTTTCT CCCCCTGGGC AAGGCTTCT ATAAATCTCT TATCATTTCT CTGCGCAAAA AGCCAGAGAA GTCAGACGTG TAAAGTTTTG 1170
TTTTGTGTT GGGGAAGGA ATAAGTGCCG TTGGGGTCT TCGGTTTGA TATTATATTG TTTTGTATCC GTAATAAAG 1260
TGTGTGTAA GAATAAGATA TTGACATAT ATTATTTTCA AAAAAAATA AAAAAAATA 1316
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D

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AGCAGTCGCA ATTCGATTGT CTTGCATATG AATGGAGCTC CAAGAAGTCC TGCATATGAA TGAAGTGAA GCGGATACAA GCTACGCCAA 90
GAATGCATCC TACAATCTGG CTCTTGCCAA GGTGAAACCT TTCTTGAAC AATGCATAGC AGAATTTGTT GCGGCCAACT TGCCCAACAT 180
CAACAAGTGC ATTAAGATTG CGGATTTGGG ATGCGCTCTT GGACCAACCA CACTTTTAAAC AGTGGGGGAC ATTTGTCAAA GTATTGACAA 270
AGTTGGCCAG GAAGAGAAGA ATGAATTTGA AGCTCCACCC ATTCAGATTT TTCTGAATGA TCTTTTCCAA AATGATTTGA ATTCGGTTTT 360
CAAGTTGCTG CCAAGCTTCT ACCGCAAACT CGAAGAAAGAA AATGGAGCGA AGATAGGATC GTGCCTAATA AGCGCAATGC CTGGCTCTTT 450
CTACGGCAGA CTCTTCCCGG AGGAGTCCAT GCAATTTTGG CACTCTTGTT ACAATGTTCA TTGGTTATCT CAGGTTTCCCA GCGGTTTGGT 540
GATTTGAATT GGGATTTGGT CAACAAGAGG GAGTATTTAC TCTTCCAAAG GATGTCGTCG CCCCCTCCAG AAGGCAATT TGGATCAATT 630
TAGCAAGATG TTTACCATAT TTTCAAGGAT TCAATTCGAA GAGTGTGTTT CAGCTGGCCG AATGCTCTT ACCTGCAATT GTAAAGTAGA 720
TGAATTCGAC GAACCGAATC CCTTACACTT ACTTGACATG GCAATAAAGC ACTTGATTGT TGAGGGGACT CTGAGGAAG AAAAAATGGA 810
TAGTTTCAAT ATTCATTTCT TTACACTTTC AGCAGAAGAA GTAAAGTGCA TAGTTGAGGA GGAAGGTTCT TCGCAAAATT TATATCTGGA 900
GACTTTTAA GCGCATATG ATGCTGCTT CTCTATTGAT GATGATTACC CAGTAAGATC CCAATGAACAA ATTAAGCAAG AGTATGTGGC 990
ATCATTAAT AGATCAGTTT ACGAACCCAT CTTGCAAGT CATTTTGGAG AAGCTATTAT GCTGCACTTA TTCCACAGG TTGCGAAGCA 1080
TTGACGCAAG GTTCTCCACA TGGCCAAAGG CTGTATATAT AATCTTATCA TTTCTCTGCG CAAAAAGCCA GAGAAGTCAG ACGTGTAATA 1170
GTTTGTGTT AGTTGGTTT TGTGCGGTG GGGGCTCTTC GGGTATTGTC GTTTTGTATT CATAATAAAA GTGATGTGCA AGAATAAGAT 1260
ATTATGATCA ATATTTTCAT AAAAAAATA AAAAAAATA 1298
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FIG. 3

MXMT1	MELQEVLMNEGEGDTSYAKVASTN-LALAKVKFFLEQCTRELLRANLEN	49
MTL1G:::EA:::S:F:Q:V:::V:::V:::.....	50
MTL2	.....G:::A:::S:F:Q:V:::V:::VG:::.....	50
MTL3	.....R::G:::SA::Q:V:::V:::V:::.....	50
MXMT1	INKCIKVADLGCAAGENTLLTVRDTVQSTDRVQPEKNELEKPTIQIFLN	99
MTL1	.....W:T:::K::M:::V::T	100
MTL2	.....R::M:::V::T	100
MTL3	.....K:::.....	100
MXMT1	DLFQNDENSVFKLIPSFYRKLEKNGRKIGSCLISAMPGSFYGRIFPEES	149
MTL1	.....M:::A:::H:::.....	150
MTL2	.....M:::A:::H:::.....	150
MTL3	...P:::S:::.....	150
MXMT1	MHFLHSCYSVHMLSQVPSGLVTELGYGANKGSTYSSKGRPPVQKAYLDQ	199
MTL1	.....S::LQF:::T:::T:::R:::ASP:::.....	200
MTL2	.....S::LQF:::T:::T:::R:::ASP:::.....	200
MTL3	.....CLQ:::T:::ST:::AS:L:::.....	200
MXMT1	FTKDFTFELRIHSEKELFSRGRMLLTCTICKVDEFDERNPLDLLMAINLLI	249
MTL1	.....MR:E::L:::G::C:G::TM:::E:::V	250
MTL2	.....R:E::L:::G::G::TM:::E:::V	250
MTL3	.....E::H:::GE:L:AR:AI:::E:::V	250
MXMT1	VEGLLEEEKLDSFNIPFFTPSASEVKCTIVEEGSCETLYLETFKAHYDAA	299
MTL1	A::R:G:::V:IY:A:V:::M:::F:::Q:::LR:::G	300
MTL2	:::H:::V:IYAA:V::L:::F:::LR:::G	300
MTL3	:::H:::L:VYI:::F:::VL:::G	300
MXMT1	FSIIDDPVRSH-----EQIKAEYVASLIRSVYEPIASHFGEADMPDL	343
MTL1	.....CQ:::SPVYSD:HAR:AH:::I::I	350
MTL2	.....CQ:::SPEYSD:HAR:AH:::L:::N:::I::I	350
MTL3	.....EH-----SV:A:::I::I	337
MXMT1	FHRLAKHAAKVLHMGKGCYNNLLISLAKGPERSDV	378
MTL1	:::F:TN:::IRL::F:::I	385
MTL2	:::F:TN:::IRL::F:::I	385
MTL3	:::F:::FL::F:::372	

FIG. 4

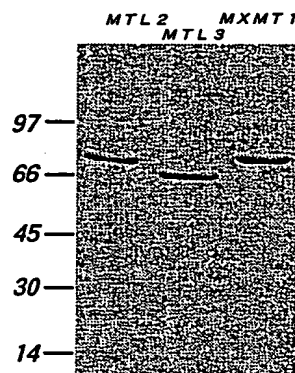
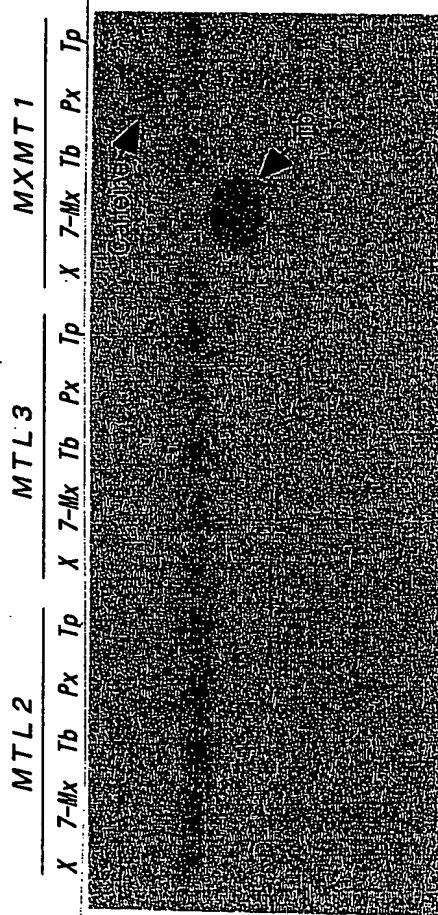


FIG. 5



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FIG. 6

